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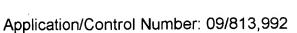
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/813,992	03/22/2001	Tomoki Hirota	Q63598	2670
· 7.	590 05/22/2002			
SUGHRUE, MION, ZINN, MACPEAK & SEAS			EXAMINER	
	ania Avenue, N.W. C 20037-3202		WARREN, M	ATTHEW E
			ART UNIT	PAPER NUMBER
		1	2815	

Please find below and/or attached an Office communication concerning this application or proceeding.

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× ×	Application No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·
	09/813,992	HIROTA, TOMOKI	
Office Action Summary	Examiner	Art Unit	
	Matthew E. Warren	2815	
The MAILING DATE of this communication appeared for Reply	p ars on the cover sheet w	vith the correspondenc address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication: If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a solution in the statutory minimum of the will apply and will expire SIX (6) MC e. cause the application to become a	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communi ABANDONED (35 U.S.C. § 133).	cation.
Status	•		
1) Responsive to communication(s) filed on 27	March 2002	•	
24,	his action is non-final.	·	
3) Since this application is in condition for allow closed in accordance with the practice under	rance except for formal m FEx parte Quayle, 1935 C	atters, prosecution as to the me D. 11, 453 O.G. 213.	rits is
Disposition of Claims		•	4
4) ☐ Claim(s) 1-10 is/are pending in the application		ation	,
4a) Of the above claim(s) <u>1-4 and 8-10</u> is/are	withdrawn from considera	IUOII.	
5) Claim(s) is/are allowed.	,		·
6) Claim(s) <u>5-7</u> is/are rejected.	*	. , ,	
7) Claim(s) is/are objected to.		*	
8) Claim(s) are subject to restriction and/o	or election requirement.		•
Application Papers	or		
9) ☐ The specification is objected to by the Examino		the Evaminer	
10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the			•
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in re	•	, , , , , , , , , , , , , , , , , , , ,	
12) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. §§ 119 and 120	:		
13) Acknowledgment is made of a claim for foreig	in priority under 35 U.S.C	. § 119(a)-(d) or (f).	
a) ☑ All b) ☐ Some * c) ☐ None of:	in priority and or or or or or		
1. ☑ Certified copies of the priority documen	nts have been received.	e de la companya de l	
		Application No.	
	•		e .
 3. Copies of the certified copies of the properties o	ureau (PCT Rule 17.2(a))). ·	
14) Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C	C. § 119(e) (to a provisional app	lication).
 a) The translation of the foreign language pr 15) Acknowledgment is made of a claim for domes 	rovisional application has stic priority under 35 U.S.	been received. C. §§ 120 and/or 121.	
Attachment(s)	·		*
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152	
C. Delegat and Trademark Office		· · · · · · · · · · · · · · · · · · ·	•

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)



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DETAILED ACTION

This Office Action is in response to the Election filed on March 27, 2002.

Election/Restrictions

Applicant's election of Group III, claims 5-7 in Paper No. 4 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 1-4 and 8-10 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 4.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.



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Claims 5 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 includes the limitation of "windows including windows associated respectively with adjacent ones of said fuse electrodes and disposed in respective positions which are different from each other in a direction in which fuse electrodes extend." The limitation renders the claim vague because it is not clear as to how the "windows included windows." Does this mean that the windows have other windows within a window or do two or more adjacent windows cross each other. Furthermore, its not clear how the windows are "associated respectively with adjacent ones [windows] of said fuse electrodes. The term "associated" renders the limitation vague. The examiner cannot determine if "associated" is to mean that two adjacent windows coexist in the same plane or if their boundaries cross each other.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 7, as far as understood, is rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicant's Prior Art Figure (APAF) 1B in view of Abe (JP-07-273200 A).



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electrodes (130) extending parallel to each other. A window (131) is associated with all of the fuses and is defined by an insulating film (114) having a thickness which allows a laser beam to pass through to cut off the fuse. The plurality of fuses include adjacent fuse electrodes disposed in respective layers which are different from each other (each fuse has its own imaginary layer if viewed from the top). APAF 1B shows all of the elements of the claims except the plurality of windows wherein each window is formed over each fuse in the plurality of fuses. Abe discloses (abstract) an integrated circuit having fuses (1, 2, 3)covered by a plate (4) that has windows (12, 22, 32) associated with each individual fuse. The windows allows a specific fuse to be cut without damaging an adjacent fuse. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the single window in the insulating layer of the APAF by forming an a window over each individual fuse as taught be Abe to prevent damage to an adjacent fuse during the laser cut process.

Claim 6, as far as understood, is rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicant's Prior Art Figure (APAF) 1B in view of Abe (JP-07-273200 A) as applied to claim 5 above, and further in view of Lee et al. (US 5,872,390).

The Applicant's Prior Art Figure (APAF) 1B in view of Abe shows all of the elements of the claims except the insulating region having a thickness which prevents a laser beam from damaging the fuse. Lee discloses a fuse structure in which an

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insulating layer (104) has a region (120) other than the window having a thickness that prevents a laser beam from damaging the fuse electrodes (col. 3 line 66-col. 4, line 10).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Huggins et al. (US 5,989,783) also shows semiconductor devices having fuse electrodes

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew E. Warren whose telephone number is (703) 305-0760. The examiner can normally be reached on Mon-Thurs, and alternating Fri, 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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May 20, 2002

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800